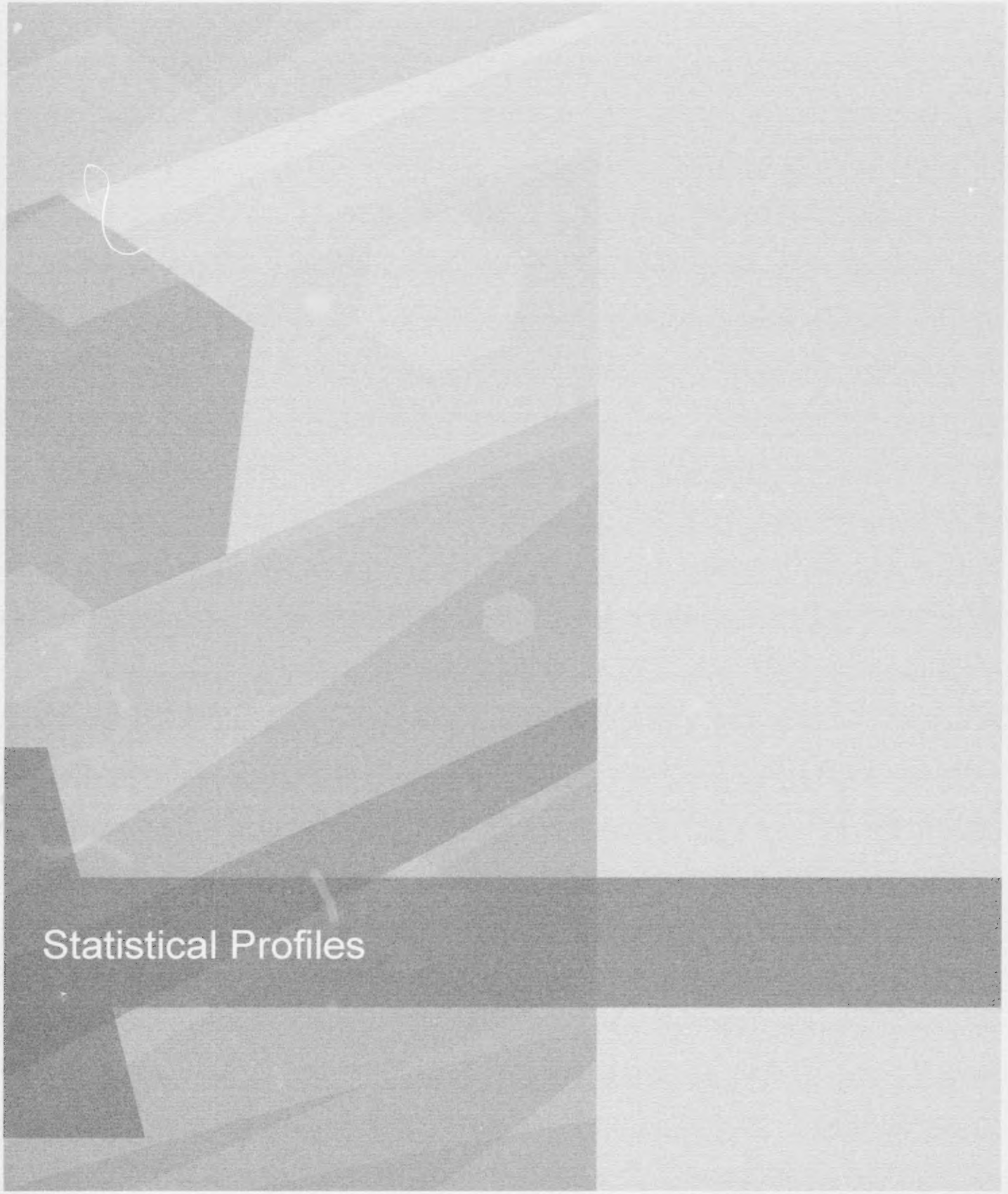
Alberta Apprenticeship and Industry Training Board

Statistical Profiles
2014

Alberta Government

Apprenticeship and Industry Training



Statistical Profiles

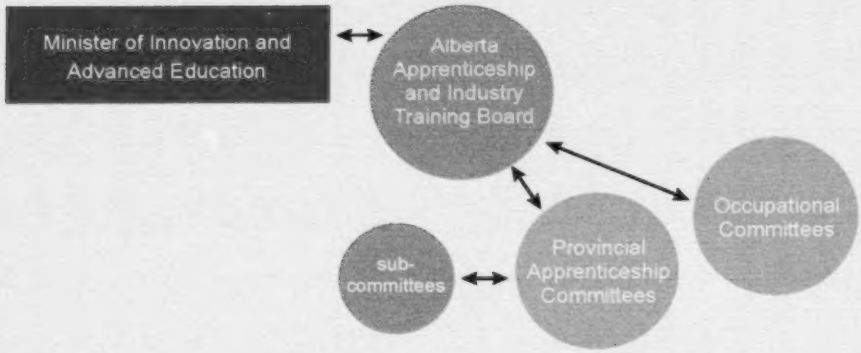
Apprenticeship at a Glance

- Alberta has more than 50 designated trades and occupations.
- Apprenticeship programs in most of the designated trades are three to four years in length.
- Approximately 80 per cent of an apprentice's time is spent on the job under the guidance of a certified journeyperson or qualified tradesperson. The other 20 per cent involves formal instruction provided at, or through, a public post-secondary institution.
- Apprenticeship begins with finding an employer. Employers hire apprentices, pay their wages and provide on-the-job training supervised by a certified or qualified tradesperson.
- Most apprentices are eligible for employment insurance while attending formal instruction. Apprentices who demonstrate financial need may qualify for a grant or loan while attending formal instruction.
- The most common age for Alberta apprentices to register in their first trade is 19.
- While in high school, students can become apprentices through the Registered Apprenticeship Program (RAP). In RAP, they obtain on-the-job training and work experience as credit toward both an apprenticeship program and a high school diploma while earning an income.
- As of March 31, 2014, approximately $6.7 million has been awarded to Alberta apprentices through the Alberta Apprenticeship and Industry Training Board Family of Scholarships.
- Alberta's apprenticeship and industry training system relies on a network of approximately 170 committees made up of more than 700 individual industry representatives. Trade and occupational committees are composed of equal numbers of employers and employees.
- Formal instruction is most often delivered through 'block release', where the apprentice spends a block of time, generally eight weeks per year in classroom instruction. Formal instruction may also be offered in other formats in some trades such as competency-based apprenticeship training (CBAT), distance delivery, weekly apprenticeship training system (WATS), mobile delivery, and blended learning.
- Although Alberta has only 12 per cent of Canada's labour force, it trains approximately 18 per cent of the country's apprentices.
- Alberta recognizes apprentices from other jurisdictions in Canada at the same level as their home jurisdiction, and facilitates that transition to ensure that the best interests of those apprentices are met.
- Alberta welcomes tradespeople from other jurisdictions and recognizes all Canadian trade certificates. Alberta also promotes the acquisition of the Interprovincial Standards Red Seal.
- Alberta has produced more tradespeople with an Interprovincial Standards Red Seal than any other jurisdiction in Canada.

Apprenticeship Statistics at a Glance - 2014

- As of December 31, 2014, there were more than 70,500 registered apprentices – the highest number ever in Alberta.
- In 2014, just under 24,000 new apprentices registered – an increase of more than 50% since 2010.
- As of December 31, 2014, approximately 3,600 Aboriginal people were registered in Alberta as apprentices.
- As of December 31, 2014, just over 6,300 women were registered in Alberta as apprentices.
- More than 1,400 high school students were registered in the Registered Apprenticeship Program (RAP) in 2014, and were employed at over 1,000 employer sites.
- More than 3,100 apprentices who started RAP in high school are currently continuing in a regular apprenticeship program.
- More than 4,100 individuals who began their apprenticeship through RAP have gone on to complete their program and become certified journeypersons. (See Table 10)
- In 2014, apprentices were being trained at more than 15,000 employer sites around Alberta.
- In 2014, more than 10,500 individuals were certified in Alberta's designated trades and occupations. (This includes completed apprentices and individuals issued occupation and qualification certificates).
- The majority of graduates who participated in the 2011/2012 apprenticeship graduate survey expressed satisfaction with:
    - the overall quality of on-the-job training (95%);
    - the overall quality of their technical training (96%); and
    - their experience with the apprenticeship program – 96% would still have chosen to become an apprentice.
- According to a 2012 survey of employers, overall satisfaction with Alberta's apprenticeship and trade certification system remains high with 92 per cent of respondents expressing satisfaction with the system.
- The majority of employers who participated in the 2012 employer survey expressed satisfaction with:
    - the skills of certified journeypersons (95%);
    - apprenticeship technical training (86%); and
    - the effectiveness of on-the-job training (96%).
- Innovation and Advanced Education staff completed more than 10,400 shop registrations through site visits in 2014. These site visits provide an opportunity to promote apprenticeship and industry training programs, and work with employers and apprentices to ensure the successful completion of apprenticeship training.

Structure and Organization of the Alberta Apprenticeship and Industry Training System



1 FORT McMURRAY

- Carpenter
- Crane and hoisting equipment operator
- Electrician
- Hairstylist
- Heavy equipment technician
- Millwright
- Welder

2 PEACE RIVER

- Heavy equipment technician
- Welder

3 GRANDE PRAIRIE

- Automotive service technician
- Carpenter
- Electrician
- Hairstylist
- Heavy equipment technician
- Sheet metal worker

4 SLAVE LAKE

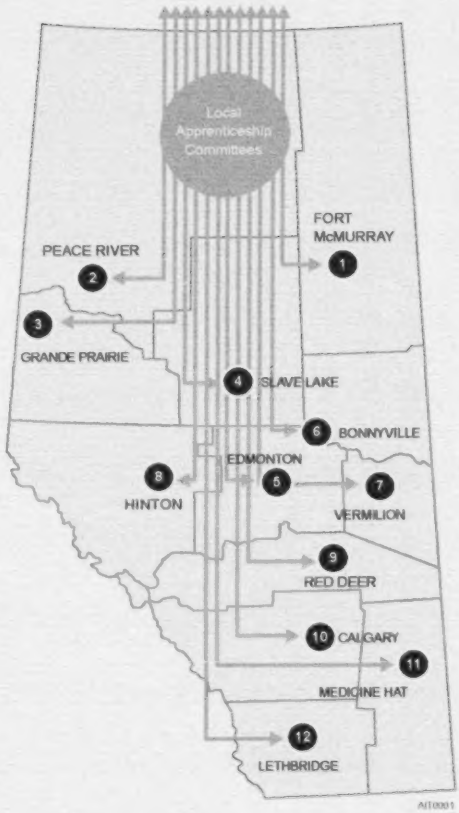
- Electrician

5 EDMONTON

- Appliance service technician
- Autobody technician
- Automotive service technician
- Baker
- Bricklayer
- Cabinetmaker
- Carpenter
- Communication technician
- Cook
- Crane and hoisting equipment operator
- Electric motor systems technician
- Electrician
- Gasfitter
- Glazier
- Hairstylist
- Heavy equipment technician
- Instrument technician
- Locksmith
- Machinist
- Millwright
- Motorcycle mechanic
- Painter and decorator
- Parts technician
- Plumber
- Powerline technician
- Recreation vehicle service technician
- Refrigeration and air conditioning mechanic
- Sheet metal worker
- Steamfitter - pipefitter
- Welder

6 BONNYVILLE

- Carpenter
- Electrician



7 VERMILION

- Automotive service technician
- Heavy equipment technician
- Welder

8 HINTON

- Welder

9 RED DEER

- Automotive service technician
- Carpenter
- Crane and hoisting equipment operator
- Electrician
- Hairstylist
- Heavy equipment technician
- Plumber
- Steamfitter - pipefitter
- Welder

10 CALGARY

- Autobody technician
- Automotive service technician
- Baker
- Bricklayer
- Cabinetmaker
- Carpenter
- Communication technician
- Cook
- Crane and hoisting equipment operator
- Electric motor systems technician
- Electrician
- Gasfitter
- Glazier
- Hairstylist
- Heavy equipment technician
- Landscape gardener
- Machinist
- Millwright
- Motorcycle mechanic
- Painter and decorator
- Parts technician
- Plumber
- Powerline technician
- Recreation vehicle service technician
- Refrigeration and air conditioning mechanic
- Sheet metal worker
- Sprinkler systems installer
- Steamfitter - pipefitter
- Tilesetter
- Welder

11 MEDICINE HAT

- Automotive service technician
- Carpenter
- Electrician
- Hairstylist
- Heavy equipment technician
- Welder

12 LETHBRIDGE

- Automotive service technician
- Carpenter
- Cook
- Electrician
- Hairstylist
- Heavy equipment technician
- Parts technician
- Plumber
- Sheet metal worker
- Welder

2014 Tables and Charts

Total and New Apprentices Registered and Provincial Labour Force Statistics by Year (Table 1) 1

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Table 1

Part A: Total and New Apprentices Registered by Year

	2009	2010	2011	2012	2013	2014
Total Apprentices Registered (all trades)	69,904	63,029	57,004	61,326	65,880	70,733
New Apprentices Registered (all trades)	16,594	15,199	17,371	21,906	22,129	23,900

Source: *Alberta Innovation and Advanced Education*

Total Apprentices Registered:
Total number registered as of December 31, 2014. Apprentices may be registered in more than one trade or branch of a trade within the same year but are counted here only once.

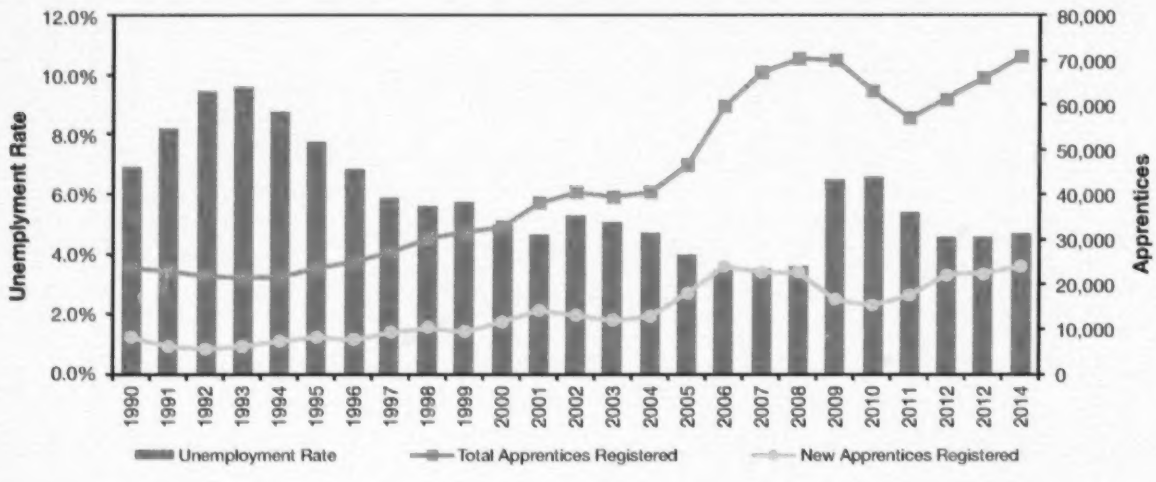
New Apprentices Registered:
All apprentices registering during a single calendar year. The number includes those who are returning to do an additional apprenticeship after completing one or more apprenticeships in previous years, or continuing an apprenticeship in another trade for which they registered in a previous year. Apprentices who registered in more than one trade or branch of a trade within a specific year, or who changed from one branch of a trade to another branch within the same trade on the same day, are counted only once. The number does not include reinstated apprentices (unless reinstated in the same year).

Part B: Provincial Labour Force Statistics by Year

	2009	2010	2011	2012	2013	2014
Labour Force	2,171,200	2,165,700	2,220,200	2,276,900	2,333,100	2,386,200
Employed	2,029,700	2,023,700	2,099,500	2,172,500	2,226,200	2,274,600
Unemployed	141,500	142,000	120,700	104,400	106,900	111,700
Unemployment Rate (%)	6.5%	6.6%	5.4%	4.6%	4.6%	4.7%

Chart 1

Alberta Unemployment Rates[1] and Total and New Apprentices Registered by Year



Source: *Alberta Innovation and Advanced Education and Alberta Jobs, Skills, Training and Labour*

[1] Annual averages

Table 2

Total Number of Apprentices Registered by Trade[1]

TRADE and BRANCH	2009	2010	2011	2012	2013	2014	2013 - 2014 % Change
Agricultural Equipment Technician ▪	189	182	176	186	203	195	-4%
Appliance Service Technician (Total)	115	109	89	80	76	75	-1%
Appliance Service Technician • ▪	99	88	18	65	64	64	0%
Commercial Appliance Service Technician •	16	21	71	15	12	11	-8%
Auto Body Technician (Total)	893	844	724	681	664	696	5%
Auto Body Technician • ▪	628	606	528	521	519	538	4%
Prepper •	14	13	11	7	13	12	-8%
Refinisher • ▪ *(Note 1)*	114	103	94	78	66	93	41%
Repairer • *(Note 1)*	137	122	91	75	66	53	-20%
Automotive Service Technician • ▪	3,867	3,727	2,984	2,840	2,952	3,183	8%
Baker ▪	237	201	175	170	180	203	13%
Boilermaker • ▪	387	470	440	431	436	469	8%
Bricklayer ▪	294	277	217	203	176	172	-2%
Cabinetmaker ▪	480	408	351	311	277	279	1%
Carpenter ▪	5,452	4,885	3,923	3,651	3,448	3,525	2%
Communication Technician	479	396	305	217	153	124	-19%
Concrete Finisher ▪	111	93	62	58	67	65	-3%
Cook ▪	1,146	1,093	985	937	900	973	8%
Crane and Hoisting Equipment Operator (Total)	2,373	2,229	2,398	2,831	3,263	3,249	0%
Boom Truck •	759	767	809	911	1,029	1,071	4%
Mobile Crane • ▪	791	663	615	775	1,005	1,070	6%
Tower Crane •	149	74	41	52	60	65	8%
Wellhead Boom Truck •	674	725	933	1,093	1,169	1,043	-11%
Electric Motor Systems Technician ▪	94	83	69	65	65	43	-34%
Electrician • ▪	10,930	10,485	9,823	10,343	11,387	13,151	15%
Elevator Constructor •	282	278	216	179	186	179	-4%
Floorcovering Installer ▪	91	53	63	48	57	40	-30%
Gasfitter (Total)	405	392	384	410	381	429	13%
Gasfitter A • ▪	373	349	335	352	326	376	15%
Gasfitter B • ▪	32	43	49	58	55	53	-4%
Glazier (Total)	354	387	351	305	280	258	-8%
Glazier ▪	350	380	346	301	276	254	-8%
Auto Glass Technician	4	7	5	4	4	4	0%
Hairstylist • ▪	2,645	2,494	2,365	2,288	2,359	2,324	-1%
Heavy Equipment Technician (Total)	5,151	4,707	4,712	5,492	5,954	6,550	10%
Heavy Equipment Technician •	4,282	3,869	3,891	4,560	4,982	5,447	9%
Heavy Duty Equipment Mechanic (Off Road) • ▪	240	247	252	306	335	374	12%
Transport Trailer Mechanic •	163	120	111	112	105	137	30%
Truck and Transport Mechanic • ▪	466	471	458	514	532	592	11%
Instrument Technician ▪	1,918	1,875	1,698	1,764	1,943	2,157	11%
Insulator ▪	723	873	838	698	726	800	10%
Ironworker (Total)	1,445	1,368	927	1,416	1,589	1,513	-5%
Ironworker • ▪	420	340	234	360	368	358	-3%
Metal Building Systems Erector •	89	90	61	90	111	112	1%
Reinforcing • ▪	280	293	163	273	268	313	17%
Structural/Ornamental • ▪	656	645	469	693	842	730	-13%
Landscape Gardener ▪	214	204	181	162	160	147	-8%
Lather-Interior Systems Mechanic ▪	128	114	89	62	86	111	29%
Locksmith	78	77	76	83	91	118	30%

(continued)

Table 2 (continued)

Total Number of Apprentices Registered by Trade[1]

TRADE and BRANCH	2009	2010	2011	2012	2013	2014	2013 - 2014 % Change
Machinist ◘	1,010	804	640	779	852	841	-1%
Millwright ◘	2,107	1,855	1,672	1,909	2,107	2,269	8%
Motorcycle Mechanic •◘	310	266	197	198	216	208	-4%
Natural Gas Compression Technician *(Note 2)*	N/A	N/A	2	15	25	32	28%
Outdoor Power Equipment Technician (Total)	108	105	98	88	75	67	-11%
Power	34	30	41	44	37	32	-14%
Turf	6	7	N/A	N/A	N/A	N/A	N/A
Marine	22	24	N/A	N/A	N/A	N/A	N/A
Recreational	46	44	57	44	38	35	-8%
Painter and Decorator ◘	148	119	113	108	101	97	-4%
Parts Technician (Total)	992	856	846	1,007	1,127	1,193	6%
Parts Technician ◘	925	786	746	893	1,000	1,064	6%
Materials Technician	67	70	100	114	127	129	2%
Plumber (Total)	4,505	4,317	3,502	3,286	3,397	3,800	12%
Plumber •◘	4,484	4,291	3,481	3,264	16	17	6%
Plumber & Gasfitter B •◘	21	26	21	22	3,381	3,783	12%
Powerline Technician ◘	654	659	618	658	733	891	22%
Power System Electrician	291	372	329	369	444	484	9%
Recreation Vehicle Service Technician •◘	206	168	116	102	111	131	18%
Refrigeration and Air Conditioning Mechanic •◘	808	809	731	753	760	821	8%
Rig Technician •◘	3,793	2,263	2,719	2,832	2,345	2,168	-8%
Roofer ◘	229	230	191	212	198	195	-2%
Sawfiler (Total) *(Note 3)*	11	8	5	4	0	N/A	N/A
Sawfiler	11	7	5	4	0	N/A	N/A
Circular Sawfiler	0	1	0	0	0	N/A	N/A
Sheet Metal Worker •◘	1,686	1,620	1,323	1,155	1,179	1,306	11%
Sprinkler Systems Installer ◘	493	431	301	263	273	281	3%
Steamfitter-Pipefitter •◘	4,434	3,675	3,150	4,160	5,250	5,769	10%
Structural Steel and Plate Fitter ◘	130	113	139	175	157	136	-13%
Tilesetter ◘	39	39	30	34	22	20	-9%
Tool and Die Maker ◘ *(Note 4)*	3	1	0	N/A	N/A	N/A	N/A
Transport Refrigeration Technician	46	41	27	28	36	37	3%
Water Well Driller	58	49	40	45	48	46	-4%
Welder (Total)	7,362	5,925	5,594	7,235	8,365	8,913	7%
Welder •◘	7,324	5,901	5,582	7,183	8,317	8,840	6%
Wire Process Operator •	38	24	12	52	48	73	52%
TOTAL	69,904	63,029	57,004	61,326	65,880	70,733	7%

Source: *Alberta Innovation and Advanced Education*

[1] Total number of apprentices registered as of December 31 each year. Apprentices may be registered in more than one trade or branch of a trade within the same year but are counted here only once. Apprentices registered and employed in another jurisdiction but taking training only in Alberta are not included here.

• = Compulsory certification trade
◘ = Red Seal trade

N/A = Not Applicable. Data does not exist in one or more of the specified years .

Note 1: In 2014, 24 of the 93 individuals registered in the refinisher branch of the auto body technician trade are also registered in the repairer branch of that trade.
Two of the 53 individuals registered in the repairer branch of the trade are also registered in the refinisher branch.
Note 2: Natural gas compression technician became a designated trade on September 1, 2011.
Note 3: Effective July 1, 2013, the designation of the trade of sawfiler was rescinded.
Note 4: Effective April 1, 2011, the designation of the trade of tool and die maker was rescinded. As of May 1, 2009, contracts of apprenticeship were no longer accepted for registration.

Table 3

New Apprentices Registered by Trade[1]

TRADE AND BRANCH	2009	2010	2011	2012	2013	2014	2013 - 2014 % Change
Agricultural Equipment Technician	59	46	54	63	59	50	-15%
Appliance Service Technician (Total)	34	26	27	26	19	25	32%
Appliance Service Technician	25	19	20	23	16	22	38%
Commercial Appliance Service Technician	9	7	7	3	3	3	0%
Auto Body Technician (Total)	255	184	213	206	196	250	28%
Auto Body Technician	203	165	181	174	157	199	27%
Prepper	11	3	6	4	10	11	10%
Refinisher ***(Note 1)***	31	10	18	19	19	30	58%
Repairer	10	6	8	9	10	10	0%
Automotive Service Technician	886	739	779	804	886	1,027	16%
Baker	69	56	64	74	64	69	8%
Boilermaker	169	149	144	132	154	137	-11%
Bricklayer	64	58	48	39	45	40	-11%
Cabinetmaker	98	92	85	91	73	103	41%
Carpenter	1,234	1,043	931	1,046	1,026	1,134	11%
Communication Technician	111	38	44	63	30	32	7%
Concrete Finisher	42	26	28	25	39	23	-41%
Cook	379	382	362	346	317	391	23%
Crane and Hoisting Equipment Operator (Total)	747	908	1,007	1,284	1,330	1,223	-8%
Boom Truck	280	354	341	409	419	433	3%
Mobile Crane	175	176	192	364	431	344	-20%
Tower Crane	33	12	15	26	30	28	-7%
Wellhead Boom Truck	259	366	459	485	450	418	-7%
Electric Motor Systems Technician	21	14	22	18	23	13	-43%
Electrician	2,210	2,280	2,398	2,921	3,338	4,153	24%
Elevator Constructor	80	50	26	15	59	40	-32%
Floorcovering Installer	26	35	31	13	30	16	-47%
Gasfitter (Total)	151	146	164	177	151	200	32%
Gasfitter A	121	119	143	141	128	165	29%
Gasfitter B	30	27	21	36	23	35	52%
Glazier (Total)	100	115	96	68	72	81	13%
Glazier	97	111	94	68	68	81	19%
Auto Glass Technician	3	4	2	0	4	0	-100%
Hairstylist	992	930	912	866	809	856	6%
Heavy Equipment Technician (Total)	1,214	1,022	1,630	2,064	1,835	2,081	13%
Heavy Equipment Technician	851	777	1,287	1,685	1,485	1,626	9%
Heavy Duty Equipment Mechanic (Off Road)	85	83	105	148	116	156	34%
Transport Trailer Mechanic	123	29	66	51	46	75	63%
Truck and Transport Mechanic	155	133	172	180	188	224	19%
Instrument Technician	433	461	506	621	684	738	8%
Insulator	139	348	220	217	266	373	40%
Ironworker (Total)	408	338	339	810	779	642	-18%
Ironworker	115	78	96	205	178	159	-11%
Metal Building Systems Erector	37	25	27	53	74	58	-22%
Reinforcing	99	102	77	190	149	201	35%
Structural/Ornamental	157	133	139	362	378	224	-41%
Landscape Gardener	67	53	55	43	50	38	-24%
Lather-Interior Systems Mechanic	39	27	26	26	47	45	-4%
Locksmith	24	20	33	24	31	53	71%

(continued)

Table 3 (continued)

New Apprentices Registered by Trade[1]

TRADE	2009	2010	2011	2012	2013	2014	2013 - 2014 % Change
Machinist	179	98	210	305	262	227	-13%
Millwright	443	348	521	668	670	636	-5%
Motorcycle Mechanic	89	55	59	77	80	69	-14%
Natural Gas Compression Technician *(Note 2)*	N/A	N/A	2	16	15	15	0%
Outdoor Power Equipment Technician (Total) *(Note 3)*	39	30	53	35	25	27	8%
Power	12	10	25	20	13	11	-15%
Turf	1	3	N/A	N/A	N/A	N/A	N/A
Marine	9	8	N/A	N/A	N/A	N/A	N/A
Recreational	17	9	28	15	12	16	33%
Painter and Decorator	42	35	44	39	35	47	34%
Parts Technician (Total)	279	261	334	464	428	429	0%
Parts Technician	226	241	275	413	369	374	1%
Materials Technician	53	20	59	51	59	55	-7%
Plumber (Total)	862	843	700	822	985	1,267	29%
Plumber	846	833	692	817	982	1,259	28%
Plumber & Gasfitter B	16	10	8	5	3	8	167%
Powerline Technician	198	187	184	235	278	338	22%
Power System Electrician	120	155	107	150	216	198	-8%
Recreation Vehicle Service Technician	38	43	29	38	41	57	39%
Refrigeration and Air Conditioning Mechanic	186	185	176	217	214	246	15%
Rig Technician	758	550	1,062	944	589	635	8%
Roofer	78	64	68	85	57	76	33%
Sawfiler (Total) *(Note 4)*	2	1	1	3	0	N/A	N/A
Sawfiler	2	0	1	3	0	N/A	N/A
Circular Sawfiler	0	1	0	0	0	N/A	N/A
Sheet Metal Worker	407	321	272	246	312	443	42%
Sprinkler Systems Installer	98	72	54	67	104	115	11%
Steamfitter-Pipefitter	1,033	1,028	1,098	1,965	2,253	2,192	-3%
Structural Steel and Plate Fitter	24	40	76	92	50	44	-12%
Tilesetter	4	18	9	13	4	7	75%
Tool and Die Maker *(Note 5)*	0	N/A	N/A	N/A	N/A		N/A
Transport Refrigeration Technician	11	7	6	15	14	15	7%
Water Well Driller	23	14	17	17	14	16	14%
Welder (Total)	1,630	1,258	2,045	3,311	3,071	2,968	-3%
Welder	1,618	1,249	2,039	3,262	3,040	2,913	-4%
Wire Process Operator	12	9	6	49	31	55	77%
TOTAL	16,594	15,199	17,371	21,906	22,129	23,900	8%

Source: *Alberta Innovation and Advanced Education*

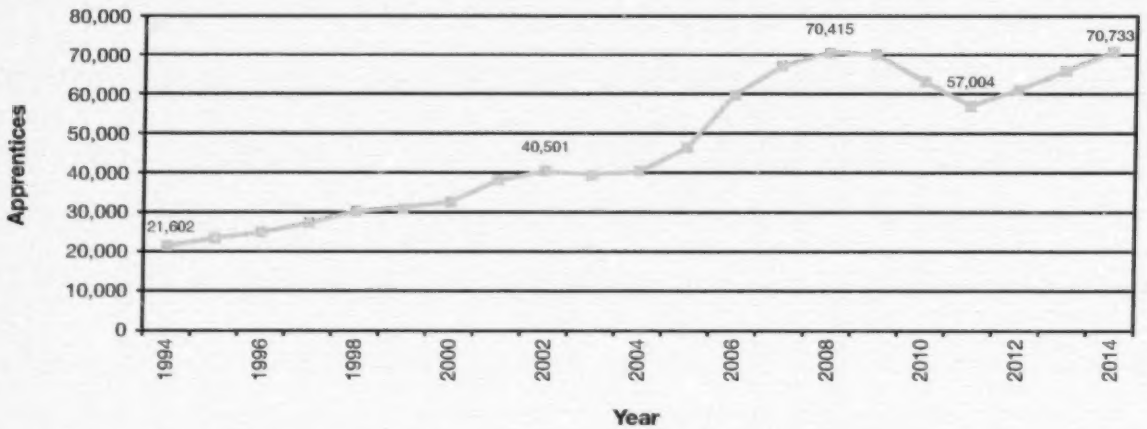
[1] New apprentices include all apprentices registering during a single calendar year. The number includes those who are returning to do an additional apprenticeship after completing one or more apprenticeship programs in previous years, or continuing an apprenticeship in another trade for which they registered in a previous year. Apprentices who registered in more than one trade or branch of a trade within 2014, are counted here only once. The number does not include reinstated apprentices (unless reinstated in the same year).

N/A = Not Applicable. Data does not exist in one or more of the specified years .

Note 1: In 2014, 2 of the 30 individuals registered in the refinisher branch of the auto body technician trade are also registered in the prepper branch of that trade.
Note 2: Natural gas compression technician became a designated trade on September 1, 2011.
Note 3: Effective September 1, 2011, the old four-period marine and recreational branches of the outdoor power equipment technician trade changed to the new three-period recreational branch of the trade, and the old four-period turf and power branches changed to the new three-period power branch.
Note 4: Effective July 1, 2013, the designation of the trade of sawfiler was rescinded.
Note 5: Effective April 1, 2011, the designation of the trade of tool and die maker was rescinded. As of May 1, 2009, contracts of apprenticeship were no longer accepted for registration.

Chart 2

Total Number of Apprentices Registered by Year[1]

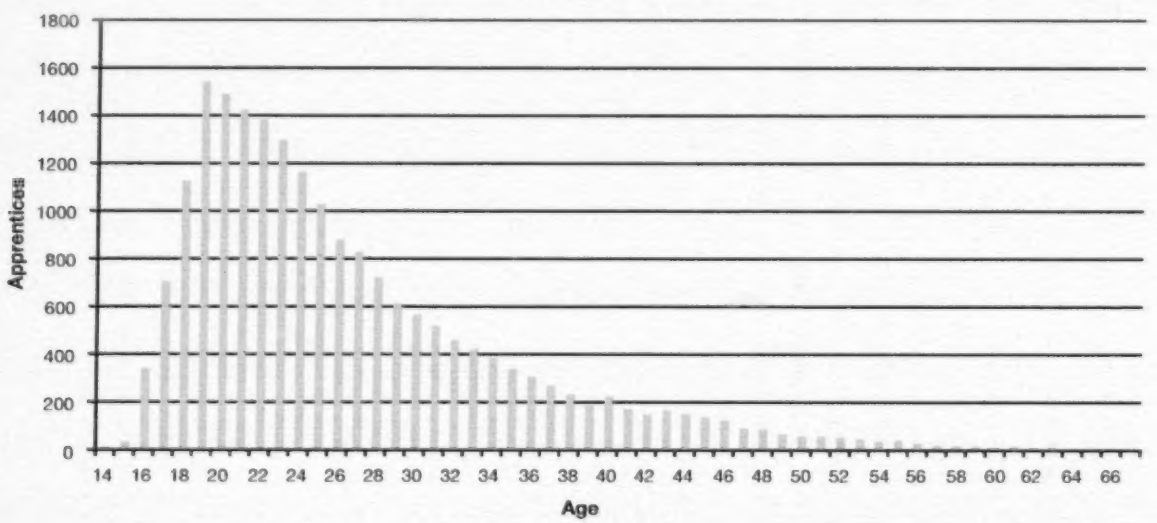


Source: *Alberta Innovation and Advanced Education*

[1] This graph represents statistics covering a series of calendar years (January to December).

Chart 3

Age of Alberta Apprentices on Date of Registration in First Trade, 2014[1]



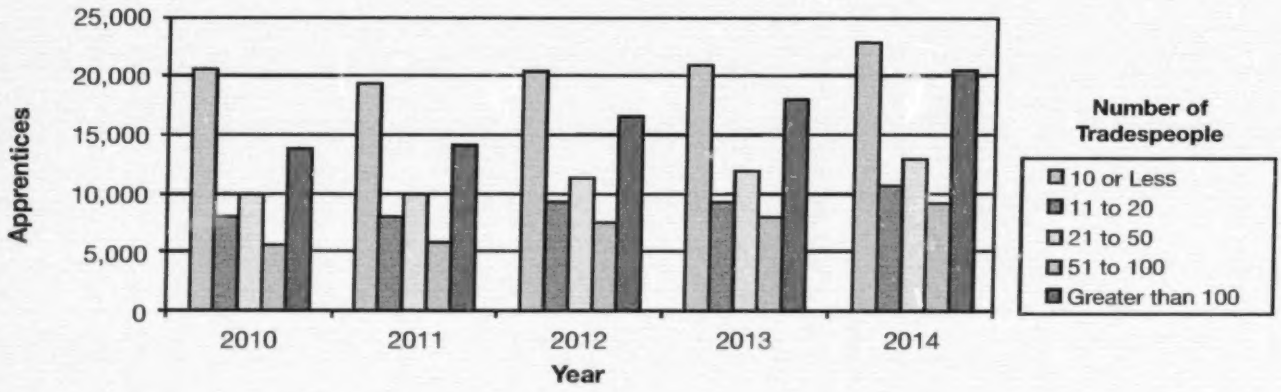
Total number of Alberta apprentices registering in their first trade in 2014 - 20,037[2]

Source: *Alberta Innovation and Advanced Education*

[1] Age at date of registration.
[2] The 20,037 total in the chart above includes only individuals registering in their first trade in Alberta in 2014. This number differs from the total number of new apprentices registered (23,900) as presented in Table 3. In Table 3, the number of new apprentices registered includes those who are returning to do an additional apprenticeship after completing one or more apprenticeship programs in previous years.

Chart 4

Total Apprentices Being Trained by Employer Site Size[1]



Source: *Alberta Innovation and Advanced Education*

[1] The size of an employer site is determined by the number of tradespeople.

Table 4

Total Number of Individuals Certified, 2014[1]

TRADE and BRANCH/OCCUPATION	Journeyman Certificates Issued to Completed Apprentices and Individuals Issued Occupation Certificates	Interprovincial Red Seals Issued to Completed Apprentices and Trainees *(Note 1)*	Qualification Certificates *(Note 2)*	Other Red Seals Issued *(Note 3)*
Agricultural Equipment Technician	**26**	**20**	**4**	**3**
Appliance Service Technician (Total)	**11**	**8**	**6**	**2**
Appliance Service Technician	9	8	2	2
Commercial Appliance Service Technician	2	N/A	4	N/A
Auto Body Technician (Total)	**92**	**71**	**36**	**13**
Auto Body Technician	27	15	8	6
Prepper	2	N/A	8	N/A
Refinisher	43	56	10	7
Repairer	20	N/A	10	N/A
Automotive Service Technician	**396**	**358**	**56**	**47**
Baker	**21**	**18**	**11**	**11**
Boilermaker	**52**	**49**	**8**	**8**
Bricklayer	**28**	**22**	**1**	**1**
Cabinetmaker	**39**	**32**	**0**	**0**
Carpenter	**423**	**347**	**23**	**17**
Communication Technician	**22**	**N/A**	**0**	**N/A**
Concrete Finisher	**9**	**7**	**3**	**2**
Cook	**150**	**139**	**145**	**114**
Crane and Hoisting Equipment Operator (Total)	**520**	**121**	**48**	**21**
Boom Truck	190	N/A	16	N/A
Mobile Crane	124	119	25	17
Tower Crane	8	2	6	4
Wellhead Boom Truck	198	N/A	1	N/A

(continued)

Table 4 (continued)

Total Number of Individuals Certified, 2014[1]

TRADE and BRANCH/OCCUPATION	Journeyman Certificates Issued to Completed Apprentices and Individuals Issued Occupation Certificates	Interprovincial Red Seals Issued to Completed Apprentices and Trainees (Note 1)	Qualification Certificates (Note 2)	Other Red Seals Issued (Note 3)
Electric Motor Systems Technician	11	8	0	0
Electrician	1,326	932	183	154
Elevator Constructor	42	N/A	1	N/A
Floorcovering Installer	5	4	0	0
Gasfitter (Total)	100	0	18	0
Gasfitter A	82	0	10	0
Gasfitter B	18	0	8	0
Glazier (Total)	53	45	1	1
Glazier	52	45	1	1
Auto Glass Technician	1	N/A	0	N/A
Hairstylist	478	349	89	82
Heavy Equipment Technician (Total)	726	573	168	143
Heavy Equipment Technician	479	N/A	53	N/A
Heavy Duty Equipment Mechanic (Off Road)	95	145	53	57
Transport Trailer Mechanic	28	N/A	10	N/A
Truck and Transport Mechanic	124	428	52	86
Instrument Technician	241	157	17	16
Insulator	109	63	2	2
Ironworker (Total)	100	57	100	70
Ironworker	20	16	6	6
Metal Building Systems Erector	7	N/A	6	N/A
Reinforcing	9	6	52	37
Structural/Ornamental	64	35	36	27
Landscape Gardener	23	21	1	1
Lather-Interior Systems Mechanic	1	1	8	8
Locksmith	5	N/A	2	N/A
Machinist	79	67	7	5
Millwright	218	179	20	17
Motorcycle Mechanic	16	14	9	9
Natural Gas Compression Technician	0	N/A	3	N/A
Outdoor Power Equipment Operator (Total)	9	N/A	0	N/A
Power	1	N/A	0	N/A
Recreational	8	N/A	0	N/A
Painter and Decorator	15	11	3	2
Parts Technician (Total)	149	117	28	19
Parts Technician	128	117	22	19
Materials Technician	21	N/A	6	N/A
Plumber (Total)	474	383	23	20
Plumber	2	2	23	20
Plumber & Gasfitter B	472	381	0	0
Powerline Technician	107	107	80	80
Power System Electrician	92	N/A	5	N/A
Recreation Vehicle Service Technician	11	11	0	0
Refrigeration and Air Conditioning Mechanic	102	93	4	3
Rig Technician	148	129	135	107
Roofer	28	25	10	9
Sheet Metal Worker	164	147	0	0
Sprinkler Systems Installer	27	23	0	0

(continued)

Table 4 (continued)

Total Number of Individuals Certified, 2014[1]

TRADE and BRANCH/OCCUPATION	Journeyman Certificates Issued to Completed Apprentices and Individuals Issued Occupation Certificates	Interprovincial Red Seals Issued to Completed Apprentices and Trainees *(Note 1)*	Qualification Certificates *(Note 2)*	Other Red Seals Issued *(Note 3)*
Steamfitter-Pipefitter	477	317	274	214
Structural Steel and Plate Fitter	17	15	13	9
Tilesetter	3	0	0	0
Transport Refrigeration Technician	5	N/A	0	N/A
Water Well Driller	8	N/A	0	N/A
Welder (Total)	1,005	857	437	391
Welder	990	857	420	391
Wire Process Operator	15	N/A	17	N/A
Total - Trades	8,163	5,897	1,982	1,601
Cathodic Protection Technician	123	N/A	N/A	N/A
Construction Craft Labourer	5	5	N/A	0
Field Heat Treatment Technician	12	N/A	N/A	N/A
Gas Utility Operator	26	N/A	N/A	N/A
Industrial Construction Crew Supervisor	253	N/A	N/A	N/A
Oil and Gas Transportation Services	0	N/A	N/A	N/A
Residential Construction Site Manager	0	N/A	N/A	N/A
Slickline Services	0	N/A	N/A	N/A
Snubbing Services	3	N/A	N/A	N/A
Steel Detailer	0	N/A	N/A	N/A
Well Testing Services Supervisor	2	N/A	N/A	N/A
Total - Occupations	424	5	N/A	0
TOTAL	8,587	5,902	1,982	1,601

Source: *Alberta Innovation and Advanced Education*

[1] Individuals issued more than one certificate in 2014 are counted here only once.

N/A = Not Applicable.

Note 1: This number includes the number of 'Interprovincial Red Seals Issued to Completed Apprentices and Trainees' in 2014 regardless of the year the apprentices or trainees completed their training.

Note 2: A Qualification Certificate is a certificate issued to individuals who, through an assessment of their prior work experience, knowledge and skills in a designated trade, demonstrate they meet the standards set for certification in Alberta.

Note 3: 'Other Red Seals Issued' includes red seals issued to individuals other than those who have completed an Alberta apprenticeship or occupational training program. The number includes red seals issued to individuals who were certified through Alberta's Qualification Certificate Program or occupation training and certification program (without completing a trainee program) and to individuals who successfully completed the interprovincial examination in Alberta rather than in the jurisdiction in which they were originally certified.

Table 5

Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Trade[1]

TRADE and BRANCH/OCCUPATION	2009	2010	2011	2012	2013	2014	2013 - 2014 % Change
Agricultural Equipment Technician	25	27	22	34	26	30	15%
Appliance Service Technician (Total)	10	21	18	21	8	17	113%
Appliance Service Technician	10	19	12	18	6	11	83%
Commercial Appliance Service Technician	0	2	6	3	2	6	200%
Auto Body Technician (Total)	110	134	133	99	77	128	66%
Auto Body Technician	12	10	14	13	19	35	84%
Prepper	15	4	7	4	1	10	900%
Refinisher	54	66	74	45	34	53	56%
Repairer	29	54	38	37	23	30	30%
Automotive Service Technician	402	444	446	472	428	452	6%
Baker	42	36	39	37	30	32	7%
Boilermaker	29	62	56	66	68	60	-12%
Bricklayer	43	34	36	39	35	29	-17%
Cabinetmaker	38	32	50	63	34	39	15%
Carpenter	384	474	621	575	512	446	-13%
Communication Technician	35	37	38	73	57	22	-61%
Concrete Finisher	16	13	15	20	18	12	-33%
Cook	150	207	222	206	187	295	58%
Crane and Hoisting Equipment Operator (Total)	369	414	455	443	466	568	22%
Boom Truck	126	153	163	137	150	206	37%
Mobile Crane	105	125	132	124	108	149	38%
Tower Crane	27	27	7	1	3	14	367%
Wellhead Boom Truck	111	109	153	181	205	199	-3%
Electric Motor Systems Technician	7	3	8	13	5	11	120%
Electrician	1,184	1,515	1,554	1,485	1,363	1,509	11%
Elevator Constructor	14	29	60	44	43	43	0%
Floorcovering Installer	7	26	10	5	6	5	-17%
Gasfitter (Total)	80	101	90	86	91	118	30%
Gasfitter A	68	94	80	72	82	92	12%
Gasfitter B	12	7	10	14	9	26	189%
Glazier (Total)	25	32	43	55	36	54	50%
Glazier	24	32	43	55	36	53	47%
Auto Glass Technician	1	0	0	0	0	1	N/A
Hairstylist	478	681	655	597	400	567	42%
Heavy Equipment Technician (Total)	776	920	905	820	812	894	10%
Heavy Equipment Technician	531	676	606	569	523	532	2%
Heavy Duty Equipment Mechanic (Off Road)	81	83	127	111	135	148	10%
Transport Trailer Mechanic	56	47	33	28	24	38	58%
Truck and Transport Mechanic	108	114	139	112	130	176	35%
Instrument Technician	229	294	281	243	198	258	30%
Insulator	68	64	56	86	91	111	22%
Ironworker (Total)	138	138	137	131	158	200	27%
Ironworker	11	17	11	18	19	26	37%
Metal Building Systems Erector	9	5	8	8	12	13	8%
Reinforcing	32	42	45	34	37	61	65%
Structural/Ornamental	86	74	73	71	90	100	11%
Landscape Gardener	16	30	19	22	20	24	20%
Lather-Interior Systems Mechanic	18	15	9	22	9	9	0%
Locksmith	3	4	9	5	7	7	0%

(continued)

Table 5 (continued)

Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Trade[1]

TRADE and BRANCH/OCCUPATION	2009	2010	2011	2012	2013	2014	2013 - 2014 % Change
Machinist	142	174	164	97	81	86	6%
Millwright	277	397	387	274	244	238	-2%
Motorcycle Mechanic	38	43	43	44	26	25	-4%
Natural Gas Compression Technician *(Note 1)*	N/A	N/A	0	3	2	3	50%
Outdoor Power Equipment Technician (Total) *(Note 2)*	6	5	15	8	9	9	0%
Power	2	1	4	4	8	1	-88%
Turf	0	0	0	N/A	N/A	N/A	N/A
Marine	0	2	1	N/A	N/A	N/A	N/A
Recreational	4	2	10	4	1	8	700%
Painter and Decorator	13	19	14	15	13	18	38%
Parts Technician (Total)	156	180	159	149	142	177	25%
Parts Technician	155	180	155	138	113	150	33%
Materials Technician	1	0	4	11	29	27	-7%
Plumber (Total)	408	560	600	594	464	497	7%
Plumber	22	20	6	14	10	25	150%
Plumber & Gasfitter B	386	540	594	580	454	472	4%
Powerline Technician	144	137	137	167	125	187	50%
Power System Electrician	35	41	51	51	70	97	39%
Recreation Vehicle Service Technician	30	40	39	18	14	11	-21%
Refrigeration and Air Conditioning Mechanic	75	99	124	86	104	106	2%
Rig Technician	151	189	159	189	204	283	39%
Roofer	12	37	22	25	22	38	73%
Sawfiler (Total) *(Note 3)*	2	1	4	2	1	N/A	N/A
Sawfiler	1	1	2	2	1	N/A	N/A
Circular Sawfiler	1	0	2	0	0	N/A	N/A
Sheet Metal Worker	98	144	128	171	112	164	46%
Sprinkler Systems Installer	28	50	69	46	52	27	-48%
Steamfitter-Pipefitter	789	691	517	533	509	751	48%
Structural Steel and Plate Fitter	30	25	13	18	17	30	76%
Tilesetter	2	8	7	5	8	3	-63%
Tool and Die Maker *(Note 4)*	0	0	1	N/A	N/A	N/A	N/A
Transport Refrigeration Technician	9	6	8	9	5	5	0%
Water Well Driller	6	6	12	10	5	8	60%
Welder (Total)	1,552	1,613	1,098	945	983	1,442	47%
Welder	1,549	1,603	1,093	936	957	1,410	47%
Wire Process Operator	3	10	5	9	26	32	23%
Total - Trades	8,699	10,252	9,758	9,221	8,397	10,145	21%
Cathodic Protection Technician *(Note 5)*	N/A	N/A	N/A	N/A	3	123	4000%
Construction Craft Labourer	41	57	25	25	3	5	67%
Field Heat Treatment Technician	23	12	23	11	16	12	-25%
Gas Utility Operator	9	14	5	8	13	26	100%
Industrial Construction Crew Supervisor	47	48	55	110	123	253	106%
Oil and Gas Transportation Services	5	0	0	0	0	0	N/A
Residential Construction Site Manager *(Note 6)*	N/A	N/A	0	0	0	0	N/A
Slickline Services *(Note 7)*	N/A	N/A	N/A	N/A	0	0	N/A

(continued)

Table 5 (continued)

Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Trade[1]

TRADE and BRANCH/OCCUPATION	2009	2010	2011	2012	2013	2014	2013 - 2014 % Change
Snubbing Services	14	4	10	5	5	3	-40%
Steel Detailer	9	3	13	0	0	0	N/A
Warehousing *(Note 8)*	11	13	N/A	N/A	N/A	N/A	N/A
Well Testing Services Supervisor	18	2	15	1	2	2	0%
Total - Occupations	177	153	146	160	165	424	157%
TOTAL	8,876	10,405	9,904	9,381	8,562	10,569	23%

Source: *Alberta Innovation and Advanced Education*

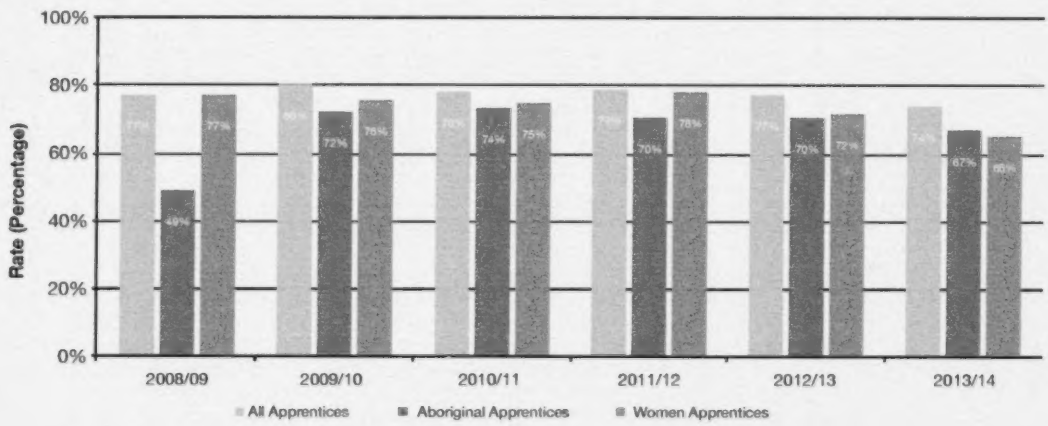
[1] Individuals issued more than one certificate in each year are counted here only once.

N/A = Not Applicable. Data does not exist in one or more of the specified years.

Note 1: Natural gas compression technician became a designated trade on September 1, 2011.
Note 2: Effective September 1, 2011, the old four-period marine and recreational branches of the outdoor power equipment technician trade changed to the new three-period recreational branch of the trade, and the old four-period turf and power branches changed to the new three-period power branch.
Note 3: Effective July 1, 2013, the designation of the trade of sawfiler was rescinded.
Note 4: Effective April 1, 2011, the designation of the trade of tool and die maker was rescinded.
Note 5: Cathodic protection technician became a designated occupation on February 4, 2013.
Note 6: Residential construction site manager became a designated occupation on September 30, 2011.
Note 7: Slickline services became a designated occupation on September 30, 2013.
Note 8: The warehousing occupation merged with the parts technician trade on May 1, 2008. Individuals registered in the warehousing occupation on that date had the option to complete their existing warehousing training and become certified prior to May 1, 2010.

Chart 5

Apprentice Completion Rate by Year



Source: *Alberta Innovation and Advanced Education*

Notes
Year = July 1 to June 31

The cohort of apprentices that is followed are those who have completed all the requirements for their first period of apprenticeship training (including technical training, on-the-job training and period exams) and went on to complete their program within two years past the normally expected completion date.

The completion rate is based on trade programs that are 2, 3 and 4 years in length combined. One-year trades are excluded.

Table 6

Technical Training Attendance by Institution and School Year[1]

INSTITUTION	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15[1]	2013/14 - 2014/15 % Change
Delmar College of Hair Design *(Note 1)*	124	113	127	90	74	76	3%
Eveline Charles Academy *(Notes 1 & 2)*	113	117	57	N/A	N/A	N/A	N/A
Grande Prairie Regional College	1,201	1,088	1,013	1,164	1,406	1,586	13%
Keyano College	867	807	781	751	831	858	3%
Lakeland College	1,002	919	952	1,133	1,306	1,438	10%
Lethbridge College	917	811	777	858	989	1,048	6%
Marvel College *(Notes 1 & 2)*	6	N/A	N/A	52	62	69	11%
Medicine Hat College	576	561	566	633	736	806	10%
Northern Alberta Institute of Technology	13,508	12,483	11,491	11,907	12,922	14,083	9%
Northern Lakes College	148	186	166	211	240	297	24%
Olds College	336	311	300	358	417	434	4%
Portage College	130	102	134	138	174	172	-1%
Red Deer College	2,914	2,457	2,284	2,484	2,941	3,458	18%
Southern Alberta Institute of Technology	8,835	7,667	7,037	7,427	7,963	8,795	10%
Other Training Providers *(Note 3)*	283	420	446	417	396	240	-39%
TOTAL	30,960	28,042	26,131	27,623	30,457	33,360	10%

Source: *Alberta Innovation and Advanced Education*

[1] These statistics cover the school year from August 1 to July 31 for each year represented, with the exception of the 2014/15 school year. The data for this year is the attendance as of the date of printing (May 2015).

Note 1: Delmar College, Eveline Charles Academy and Marvel College provide technical training for hairstylists. The hairstylist trade has a two-year apprenticeship program.
Note 2: Between August 1, 2009 and July 31, 2012, Eveline Charles Academy provided hairstylist training in the northern part of the province. As of August 1, 2012, Marvel College has been providing the hairstylist training for northern Alberta.
Note 3: 'Other' training providers may not provide apprenticeship technical training every year. Other training providers for 2014/15 include:

- *ATCO Electric - is accredited to provide technical training for its powerline technician apprentices.*
- *Enform - (previously Petroleum Industry Training Service) provides training for the wellhead boom truck branch of the crane and hoisting equipment operator trade - a one-year apprenticeship program.*
- *FortisAlberta Inc. - (previously Aquila Networks Canada, Utilicorp Networks Canada and Trans Alta Utilities) is accredited to provide technical training for its powerline technician apprentices.*

Table 7

Total Number of Apprentices Registered by Trade and Period (or Year) of Technical Training, 2014[1]

TRADE and BRANCH	1st Period	2nd Period	3rd Period	4th Period	TT Completed (Note 1)	Total Apprentices
Agricultural Equipment Technician	94	27	37	25	12	195
Appliance Service Technician (Total)	36	14	17	N/A	8	75
Appliance Service Technician	30	13	17	N/A	4	64
Commercial Appliance Service Technician	6	1	N/A*	N/A	4	11
Auto Body Technician (Total)	270	209	129	51	37	696
Auto Body Technician	209	148	110	51	20	538
Prepper	12	N/A*	N/A	N/A	0	12
Refinisher	35	47	N/A	N/A	11	93
Repairer	14	14	19	N/A	6	53
Automotive Service Technician	1,338	644	502	490	209	3,183
Baker	71	40	17	N/A	75	203
Boilermaker	119	215	103	N/A	32	469
Bricklayer	52	43	62	N/A	15	172
Cabinetmaker	112	64	27	65	11	279
Carpenter	1,484	662	634	611	134	3,525
Communication Technician	45	7	24	29	19	124
Concrete Finisher	41	3	N/A*	N/A	21	65
Cook	410	118	217	N/A	228	973
Crane and Hoisting Equipment Operator (Total)	2,329	N/A*	526	N/A	394	3,249
Boom Truck	1,012	N/A	N/A	N/A	59	1,071
Mobile Crane	482	N/A*	526	N/A	62	1,070
Tower Crane	55	N/A*	N/A	N/A	10	65
Wellhead Boom Truck	780	N/A	N/A	N/A	263	1,043
Electric Motor Systems Technician	19	7	4	9	4	43
Electrician	4,813	3,244	2,263	2,385	446	13,151
Elevator Constructor	0	0	0	121	58	179
Floorcovering Installer	30	9	N/A	N/A	1	40
Gasfitter (Total)	151	86	147	N/A	45	429
Gasfitter A	115	71	147	N/A	43	376
Gasfitter B	36	15	N/A	N/A	2	53
Glazier (Total)	97	58	44	45	14	258
Glazier	95	56	44	45	14	254
Auto Glass Technician	2	2	N/A	N/A	0	4
Hairstylist	789	357	N/A	N/A	1,178	2,324
Heavy Equipment Technician (Total)	2,583	1,376	1,433	731	427	6,550
Heavy Equipment Technician	2,075	1,164	1,134	731	343	5,447
Heavy Duty Equipment Mechanic (Off Road)	151	76	128	N/A	19	374
Transport Trailer Mechanic	116	N/A*	N/A	N/A	21	137
Truck and Transport Mechanic	241	136	171	N/A	44	592
Instrument Technician	854	414	348	256	285	2,157
Insulator	488	119	158	N/A	35	800
Ironworker (Total)	992	308	129	28	56	1,513
Ironworker	245	55	27	28	3	358
Metal Building Systems Erector	85	22	N/A	N/A	5	112
Reinforcing	281	29	N/A	N/A	3	313
Structural/Ornamental	381	202	102	N/A	45	730
Landscape Gardener	66	21	19	19	22	147
Lather-Interior Systems Mechanic	60	21	30	N/A	0	111
Locksmith	64	37	12	3	2	118

(continued)

Table 7 (continued)

Total Number of Apprentices Registered by Trade and Period (or Year) of Technical Training, 2014[1]

TRADE and BRANCH	1st Period	2nd Period	3rd Period	4th Period	TT Completed *(Note 1)*	Total Apprentices
Machinist	254	212	252	103	20	841
Millwright	761	520	523	384	81	2,269
Motorcycle Mechanic	76	38	33	40	21	208
Natural Gas Compression Technician	18	14	0	0	0	32
Outdoor Power Equipment Technician (Total)	39	12	12	N/A	4	67
Power	17	8	7	N/A	0	32
Recreational	22	4	5	N/A	4	35
Painter and Decorator	46	29	11	N/A	11	97
Parts Technician (Total)	513	364	274	N/A	42	1,193
Parts Technician	445	336	247	N/A	36	1,064
Materials Technician	68	28	27	N/A	6	129
Plumber (Total)	1,507	807	720	635	131	3,800
Plumber	7	6	3	1	0	17
Plumber & Gasfitter B	1,500	801	717	634	131	3,783
Powerline Technician	333	249	185	N/A*	124	891
Power System Electrician	59	34	220	120	51	484
Recreation Vehicle Service Technician	66	39	23	N/A	3	131
Refrigeration and Air Conditioning Mechanic	246	189	192	168	26	821
Rig Technician	834	635	598	N/A	101	2,168
Roofer	90	48	39	N/A*	18	195
Sheet Metal Worker	579	254	204	246	23	1,306
Sprinkler Systems Installer	145	66	57	N/A*	13	281
Steamfitter-Pipefitter	3,174	1,514	929	N/A	152	5,769
Structural Steel and Plate Fitter	46	48	39	N/A	3	136
Tilesetter	10	0	N/A*	N/A	10	20
Transport Refrigeration Technician	11	15	3	N/A	8	37
Water Well Driller	31	14	N/A	N/A	1	46
Welder (Total)	3,985	2,329	2,241	N/A	358	8,913
Welder	3,917	2,329	2,241	N/A	353	8,840
Wire Process Operator	68	N/A*	N/A	N/A	5	73
TOTAL	30,230	15,533	13,437	6,564	4,969	70,733

Source: *Alberta Innovation and Advanced Education*

[1] These statistics are as of December 31, 2014.

N/A = Not all trades have four periods as part of the apprenticeship program. The N/As indicate where there is no period in that trade.
N/A* = The number of periods of an apprenticeship program does not always equal the number of periods of technical training required . N/A* indicates where there is a period in the apprenticeship program but no technical training is required in that period.

Note 1: 'TT Completed' refers to those apprentices who have completed, or who have been granted credit for, all technical training (TT) requirements in their apprenticeship program. Industry examination and/or work experience/on-the-job training requirements for the trade have yet to be successfully completed.

Table 8

Number of Apprentices Registered, Certified and Attending Technical Training by Apprenticeship and Industry Training Office Regions[1], 2014[2]

OFFICE REGION	Total Apprentices Registered	New Apprentices Registered	Apprentices Certified	Technical Training Attendance[3]
Bonnyville	1,845	651	216	753
Calgary	16,438	5,827	1,935	7,430
Edmonton	29,731	9,923	3,395	12,652
Fort McMurray	3,593	1,205	408	1,508
Grande Prairie	3,539	1,247	368	1,507
Hinton	1,593	546	182	725
Lethbridge	2,459	794	286	1,196
Medicine Hat	1,776	516	230	846
Peace River	947	273	80	399
Red Deer	5,941	1,961	707	2,736
Slave Lake	923	275	91	452
Vermilion	1,925	680	263	1,005
Total - Office Regions	70,710	23,898	8,161	31,209
Interprovincial - Training Only *(Note 1)*	N/A	N/A	N/A	385
Interprovincial/International - Training and Certification *(Note 2)*	23	2	2	12
Total - Other	23	2	2	397
TOTAL	70,733	23,900	8,163 *(Note 3)*	31,606

Source: *Alberta Innovation and Advanced Education*

[1] See map on page v for Apprenticeship and Industry Training office regions.
[2] This table represents statistics covering the January to December 2014 calendar year. Technical training in Table 6 is reported as school year. For this table only, the technical training statistics cover the calendar year for comparability within this table.
[3] Attendance reflects the number of technical training seats occupied.

Note 1: Alberta provides training for apprentices from other Canadian provinces and territories where the trade is designated but the jurisdictions are unable to provide technical training due to small apprentice registration numbers. Alberta does not issue these individuals a certificate. They are not counted in any of the tables or charts reflecting the number of registered Alberta apprentices.

Note 2: Alberta registers apprentices and provides technical training to people from jurisdictions where no apprenticeship program exists. Alberta issues a certificate on completion of the program.

Note 3: Not all apprentices attend technical training in any given year. The reasons for not attending may include:
- Apprentices do not normally attend technical training until they have had at least eight to 10 months of on-the-job training with their employer.
- Some apprentices are graduates of accredited post-secondary technical programs or have completed an apprenticeship program in another trade and have received credit for their technical training.
- Some have successfully completed all of the technical training and have only the required on-the-job training to complete before being eligible to be certified.
- Some prefer to obtain the study material (ILMs – individual learning modules) and learn at their own pace, and then challenge the industry exam.
- Some are in the Registered Apprenticeship Program (RAP) and attending high school and are not able to attend technical training.

Table 9

Number of Committee Meetings[1] by Trade/Occupation and Year

TRADE/OCCUPATION	Provincial Apprenticeship Committees (Full and Sub) and Occupational Committees (Note 1)							Local Apprenticeship Committees (Note 2)							
	2009	2010	2011	2012	2013	2014	Total	2009	2010	2011	2012	2013	2014	Total	Number of LACs
Agricultural Equipment Technician	0	2	1	3	5	2	13								0
Appliance Service Technician	0	2	3	8	2	2	17	0	1	0	1	0	0	2	1
Auto Body Technician	5	6	2	5	3	3	24	1	0	2	0	2	2	7	2
Automotive Service Technician	6	7	3	9	0	4	29	6	8	1	3	4	3	25	7
Baker	2	3	6	7	2	3	23	0	0	0	0	2	1	3	2
Boilermaker	2	0	1	1	0	3	7								0
Bricklayer	5	5	5	3	2	2	22	2	0	2	2	2	1	9	2
Cabinetmaker	3	5	3	0	1	5	17	1	2	1	2	0	1	7	2
Carpenter	1	2	1	0	8	10	22	4	1	8	2	4	5	24	8
Communication Technician	7	1	5	5	4	4	26	1	0	0	1	1	2	5	2
Concrete Finisher	1	2	0	4	1	0	8								0
Cook	2	4	2	2	9	3	22	3	3	2	2	2	3	15	3
Crane and Hoisting Equipment Operator	7	4	4	5	2	5	27	3	2	2	2	3	3	15	4
Electric Motor Systems Technician	1	1	1	1	3	2	9	1	0	0	2	0	0	3	2
Electrician	6	5	8	12	5	9	45	5	5	7	4	5	2	28	9
Elevator Constructor	1	5	1	0	2	2	11								0
Floorcovering Installer	4	3	5	3	1	1	17								0
Gasfitter	1	1	0	0	3	7	12	0	1	0	0	0	1	2	2
Glazier	2	0	0	9	9	5	25	2	1	1	2	3	0	9	2
Hairstylist	3	8	3	3	2	4	23	3	2	3	4	2	5	19	7
Heavy Equipment Technician	6	6	6	8	6	7	39	7	1	5	7	4	6	30	9
Instrument Technician	13	10	7	7	3	6	46	1	0	0	0	0	0	1	1
Insulator	2	2	2	9	3	3	21								
Ironworker	1	2	4	0	5	7	19								
Landscape Gardener	2	8	7	1	2	2	22	1	0	1	1	0	1	4	1
Lather-Interior Systems Mechanic	6	2	1	1	1	1	12								0
Locksmith	2	1	0	1	1	5	10	1	1	0	0	0	1	3	1
Machinist	3	2	1	8	1	16	31	1	0	2	2	3	0	8	2
Millwright	6	2	2	5	6	2	23	0	5	2	2	1	3	13	3
Motorcycle Mechanic	3	4	7	5	4	2	25	2	2	0	3	1	1	9	2
Natural Gas Compression Technician			0	1	0	1	2								0
Outdoor Power Equipment	6	1	5	5	1	2	20	1	0	0	0	0			0
Painter and Decorator	4	1	1	2	1	1	10	1	1	0	1	3	2	8	2
Parts Technician	2	2	3	4	6	5	22	4	4	2	2	1	4	17	3
Plumber	2	9	0	1	2	1	15	2	1	2	1	1	2	9	4
Powerline Technician	1	2	2	7	6	8	26	2	0	0	2	1	2	7	2
Power System Electrician	3	3	3	3	7	3	22								0
Recreation Vehicle Service Technician	0	2	0	1	3	8	14	2	1	2	3	2	1	11	2

(continued)

Table 9 (continued)

Number of Committee Meetings[1] by Trade/Occupation and Year

TRADE/OCCUPATION	Provincial Apprenticeship Committees (Full and Sub) and Occupational Committees (Note 1)							Local Apprenticeship Committees (Note 2)							
	2009	2010	2011	2012	2013	2014	Total	2009	2010	2011	2012	2013	2014	Total	Number of LACs
Refrigeration and Air Conditioning Mechanic	8	9	10	4	6	6	43	1	3	1	1	2	0	8	2
Rig Technician	1	4	2	4	2	2	15								0
Roofer	1	8	7	7	2	2	27								0
Sawfiler	0	0	1	0			1								
Sheet Metal Worker	7	10	11	2	3	2	35	3	0	4	2	3	2	14	4
Sprinkler Systems Installer	0	4	2	0	3	1	10	0	0	0	1	1	0	2	1
Steamfitter- Pipefitter	1	2	2	5	5	1	16	2	0	0	0	1	0	3	3
Structural Steel and Plate Fitter	0	2	1	2	8	6	19								0
Tilesetter	1	1	4	3	6	1	16	0	1	1	0	0	0	2	1
Tool and Die Maker	1	0	5				6								
Transport Refrigeration Technician	3	5	0	3	4	7	22								0
Water Well Driller	1	4	1	1	5	5	17								0
Welder	1	1	1	1	6	9	19	6	1	1	2	3	4	17	9
Total Meetings - Trades (Note 3)	146	175	152	174	169	190	1,006	69	47	52	57	57	58	340	107
Cathodic Protection Technician					1	1	2								
Construction Craft Labourer	3	0	0	1	0	1	5								
Field Heat Treatment Technician	1	0	2	2	2	1	8								
Gas Utility Operator	1	0	2	0	1	2	6								
Industrial Construction Crew Supervisor	0	2	2	2	2	0	8								
Oil and Gas Transportation Services *(Note 4)*	2						2								
Petroleum Competency Program Steering Committee *(Note 4)*		0	1	0	0	0	1								
Residential Construction Site Manager			3	0	1	0	4								
Slickline Services *(Note 4)*							0								
Snubbing Services *(Note 4)*	2						2								
Steel Detailer	0	2	4	0	1	4	11								
Warehousing	0						0								
Well Testing Services Supervisor *(Note 4)*	2						2								
Total Occupations	7	4	14	5	8	9	47								

Source: *Alberta Innovation and Advanced Education*

[1] The number of meetings in this table includes sub-committee meetings for provincial apprenticeship committees and and occupational committees. It does not include ballots for any of the committees.

Note 1: There is one provincial apprenticeship committee for each designated trade and one occupational committee for each designated occupation.

Note 2: The number of local apprenticeship committees (LACs) varies by trade. The number of LACs for each trade as of Dec 31, 2014 is indicated in the 'Number of LACs' column. Some trades do not have any LACs. The number of LAC meetings reflected in the table for each trade adds together the meetings of all the LACs in the province for that trade.

Shaded cells indicate that a committee did not exist in that trade or occupation for all or part of the year. Designated occupations do not have local committees.

Note 3: A number of meetings of the provincial apprenticeship committees (PACs) were held jointly with other PAC meetings. These joint meetings are counted in the meetings for each PAC, but are only counted once in the totals. The number of joint meetings varies each year. The number of joint meetings in each year are as follows: 2009 - 0; 2010 - 0; 2011 - 0; 2012 - 7; 2013 - 3; 2014 - 8.

Note 4: As of 2010, the Petroleum Competency Program Steering Committee has served as the industry committee for the following designated occupations: oil and gas transportation services, slickline services, snubbing services and well testing services supervisor. In 2009, the meetings of the oil and gas transportation services, snubbing services and well testing services supervisor were joint and are, therefore only counted once in the total for that year.

Table 10

Number of Participants in the Registered Apprenticeship Program (RAP) by Trade, 2014

TRADE and BRANCH	High School	Full Time	Certified *(Note 1)*
Agricultural Equipment Technician	20	44	44
Appliance Service Technician (Total)	0	2	5
Appliance Service Technician	0	1	5
Commercial Appliance Service Technician	0	1	0
Auto Body Technician (Total)	32	69	94
Auto Body Technician	31	57	14
Prepper	0	0	0
Refinisher	1	9	46
Repairer	0	3	34
Automotive Service Technician	160	309	444
Baker	4	16	11
Boilermaker	0	1	0
Bricklayer	1	10	14
Cabinetmaker	15	34	46
Carpenter	110	237	269
Communication Technician	3	4	1
Concrete Finisher	3	5	4
Cook	42	81	79
Crane and Hoisting Equipment Operator (Total)	6	15	21
Boom Truck	4	8	6
Mobile Crane	2	5	14
Tower Crane	0	2	1
Wellhead Boom Truck	0	0	0
Electric Motor Systems Technician	2	1	1
Electrician	146	439	511
Elevator Constructor	0	1	0
Floorcovering Installer	5	5	3
Gasfitter (Total)	6	4	4
Gasfitter A	6	4	4
Gasfitter B	0	0	0
Glazier (Total)	2	9	8
Glazier	2	8	8
Auto Glass Technician	0	1	0
Hairstylist	83	159	527
Heavy Equipment Technician (Total)	297	603	489
Heavy Equipment Technician	280	575	458
Heavy Duty Equipment Mechanic (Off Road)	9	9	4
Transport Trailer Mechanic	2	1	5
Truck and Transport Mechanic	6	18	22
Instrument Technician	38	81	104
Insulator	5	1	2
Ironworker (Total)	4	6	2
Ironworker	4	2	1
Metal Building Systems Erector	0	0	1
Reinforcing	0	0	0
Structural/Ornamental	0	4	0
Landscape Gardener	8	12	7
Lather-Interior Systems Mechanic	16	15	1
Locksmith	0	1	4

(continued)

Table 10 (continued)

Number of Participants in the Registered Apprenticeship Program (RAP) by Trade, 2014

TRADE and BRANCH	High School	Full Time	Certified (Note 1)
Machinist	25	39	59
Millwright	28	114	123
Motorcycle Mechanic	9	19	28
Natural Gas Compression Technician	0	2	0
Outdoor Power Equipment Technician (Total)	7	12	5
Power	1	8	2
Recreational	6	4	3
Painter and Decorator	1	4	6
Parts Technician (Total)	32	37	72
Parts Technician	31	36	72
Materials Technician	1	1	0
Plumber (Total)	45	129	152
Plumber	0	0	1
Plumber & Gasfitter B	45	129	151
Powerline Technician	5	14	18
Power System Electrician	0	0	0
Recreation Vehicle Service Technician	3	8	4
Refrigeration and Air Conditioning Mechanic	8	19	21
Rig Technician	0	0	0
Roofer	4	0	4
Sheet Metal Worker	12	23	29
Sprinkler Systems Installer	3	5	9
Steamfitter-Pipefitter	29	54	62
Structural Steel and Plate Fitter	1	4	8
Tilesetter	1	0	3
Transport Refrigeration Technician	0	2	3
Water Well Driller	3	2	3
Welder (Total)	224	487	877
Welder	224	487	877
Wire Process Operator	0	0	0
TOTAL	1,448	3,138	4,181

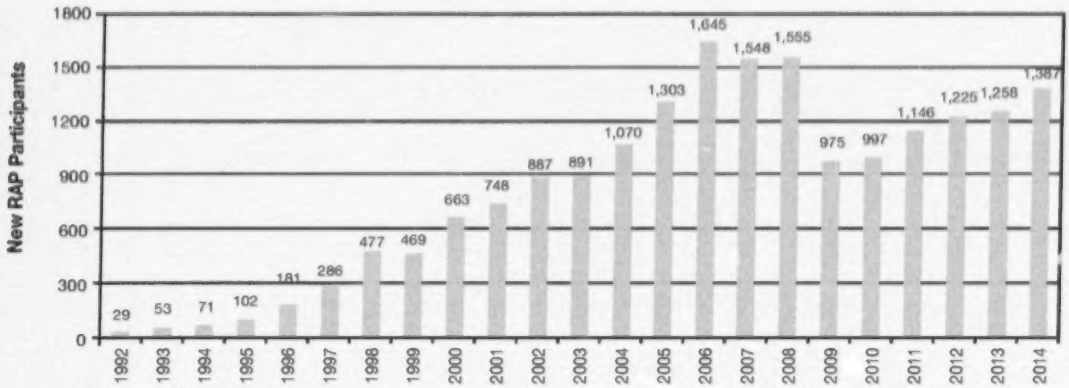
Source: *Alberta Innovation and Advanced Education*

High School = RAP participants currently in high school.
Full Time = RAP participants who have completed high school and are now full time apprentices.
Certified = RAP participants who have completed their apprenticeship program and are now certified tradespeople.

Note 1: Total number of RAP participants certified since inception of program (1992).

Chart 6

Number of New Registrants in the Registered Apprenticeship Program (RAP) by Year[1]

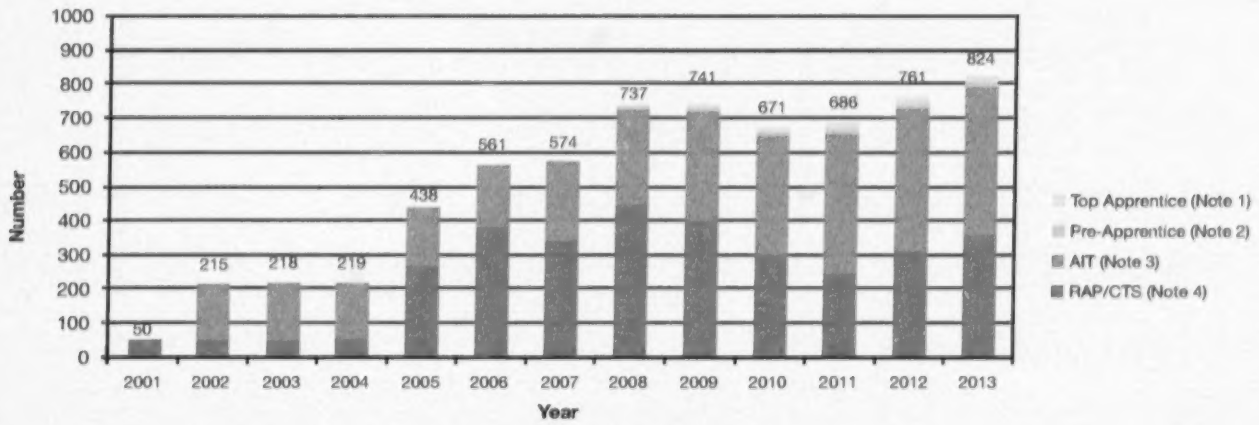


Source: *Alberta Innovation and Advanced Education*

[1] This graph represent statistics covering calendar years (January to December).

Chart 7

Total Number of Individuals Awarded Scholarships by Year



$6.7 million dollars have been awarded to apprentices since the scholarship program began in 2001.

Source: *Alberta Innovation and Advanced Education*

Note 1: There are currently 21 Top Apprentice Scholarships of $1,500 available each year. The first year the scholarships were awarded was 2008. Top Apprentice Scholarships are awarded to apprentices who achieved both a very high academic standing in their technical training and a strong employer recommendation.

Note 2: There are currently11 Pre-Apprentice Scholarships of $1,000 available each year. The first year the scholarships were awarded was 2008. Pre-Apprenticeship Scholarships are awarded to individuals who have completed pre-trades training and have since become a registered apprentice. Recipients are selected based on their marks and employer recommendations.

Note 3: There are a minimum of 357 Apprenticeship and Industry Training (AIT) Scholarships of $1,000 available each year. The number varies each year based on the value of the endowment fund. The first year the scholarships were awarded was 2002. AIT Scholarships are awarded to registered apprentices who are continuing in, and working toward, completing their apprenticeship program. Recipients are selected based on their marks and employer recommendations.

Note 4: The Registered Apprentice Program/Career and Technology Studies Apprenticeship Pathways (RAP/CTS) Scholarships are $1,000 each. For the years 2001 to 2004, there were 50 RAP/CTS scholarships available. Since 2005, 500 RAP/CTS Scholarships are available each year. RAP/CTS Scholarships are awarded to individuals who have participated in RAP or in CTS apprenticeship pathways in high school and have since become a registered apprentice. Recipients are selected based on employer recommendations, high school recommendations and marks.

For more information on scholarships, go to: tradesecrets.alberta.ca

Table 11

Number of Apprentices Registered – Total, Aboriginal and Women, 2014[1]

TRADE and BRANCH	Total Apprentices Registered	Aboriginal Apprentices Registered	Women Apprentices Registered
Agricultural Equipment Technician	195	4	1
Appliance Service Technician (Total)	75	2	0
Appliance Service Technician	64	2	0
Commercial Appliance Service Technician	11	0	0
Auto Body Technician (Total)	696	24	49
Auto Body Technician	538	22	37
Prepper	12	0	2
Refinisher	93	2	8
Repairer	53	0	2
Automotive Service Technician	3,183	141	116
Baker	203	10	158
Boilermaker	469	41	20
Bricklayer	172	7	6
Cabinetmaker	279	13	45
Carpenter	3,525	242	234
Communication Technician	124	3	5
Concrete Finisher	65	4	0
Cook	973	54	320
Crane and Hoisting Equipment Operator (Total)	3,249	138	60
Boom Truck	1,071	50	13
Mobile Crane	1,070	52	39
Tower Crane	65	1	1
Wellhead Boom Truck	1,043	35	7
Electric Motor Systems Technician	43	1	0
Electrician	13,151	522	717
Elevator Constructor	179	2	3
Floorcovering Installer	40	0	2
Gasfitter (Total)	429	21	17
Gasfitter A	376	19	17
Gasfitter B	53	2	0
Glazier (Total)	258	6	9
Glazier	254	6	9
Auto Glass Technician	4	0	0
Hairstylist	2,324	110	2,110
Heavy Equipment Technician (Total)	6,550	330	136
Heavy Equipment Technician	5,447	275	112
Heavy Duty Equipment Mechanic (Off Road)	374	20	10
Transport Trailer Mechanic	137	1	3
Truck and Transport Mechanic	592	34	11
Instrument Technician	2,157	84	100
Insulator	800	61	130
Ironworker (Total)	1,513	181	70
Ironworker	358	46	19
Metal Building Systems Erector	112	8	1
Reinforcing	313	59	8
Structural/Ornamental	730	68	42
Landscape Gardener	147	4	56
Lather-Interior Systems Mechanic	111	8	3
Locksmith	118	4	13

(continued)

Table 11 (continued)

Number of Apprentices Registered – Total, Aboriginal and Women, 2014[1]

TRADE and BRANCH	Total Apprentices Registered	Aboriginal Apprentices Registered	Women Apprentices Registered
Machinist	841	20	44
Millwright	2,269	112	69
Motorcycle Mechanic	208	15	13
Natural Gas Compression Technician	32	2	0
Outdoor Power Equipment Technician (Total)	67	3	5
Power	32	1	2
Recreational	35	2	3
Painter and Decorator	97	3	20
Parts Technician (Total)	1,193	61	448
Parts Technician	1,064	49	409
Materials Technician	129	12	39
Plumber (Total)	3,800	200	153
Plumber	17	3	0
Plumber & Gasfitter B	3,783	197	153
Powerline Technician	891	51	13
Power System Electrician	484	11	13
Recreation Vehicle Service Technician	131	7	9
Refrigeration and Air Conditioning Mechanic	821	21	16
Rig Technician	2,168	117	4
Roofer	195	17	6
Sheet Metal Worker	1,306	47	65
Sprinkler Systems Installer	281	9	7
Steamfitter-Pipefitter	5,769	355	262
Structural Steel and Plate Fitter	136	5	4
Tilesetter	20	0	4
Transport Refrigeration Technician	37	1	0
Water Well Driller	46	2	2
Welder (Total)	8,913	523	765
Welder	8,840	520	764
Wire Process Operator	73	3	1
TOTAL - TRADES	70,733	3,599	6,302

(Note 1)

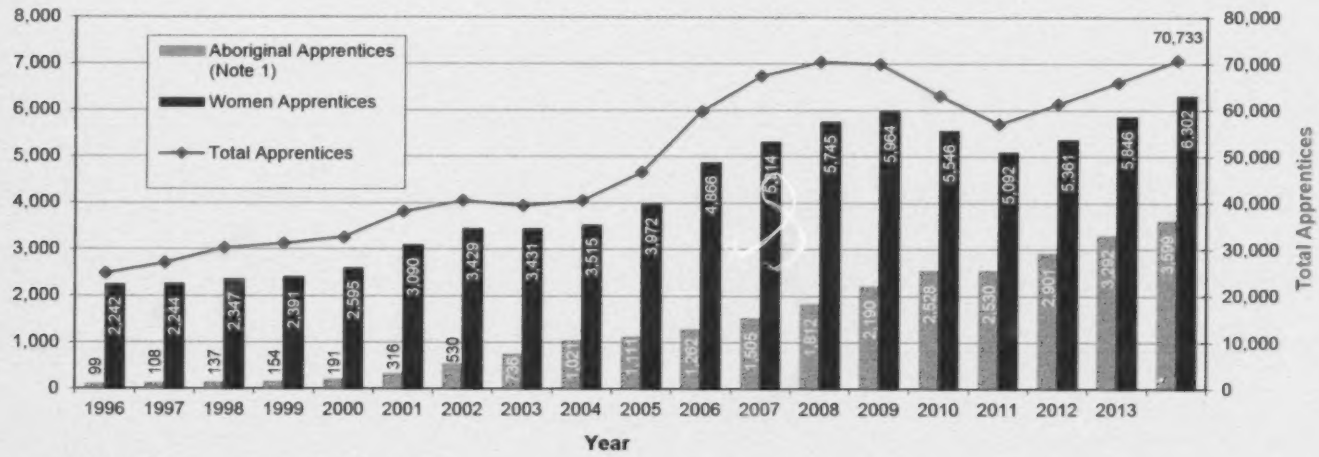
Source: *Alberta Innovation and Advanced Education*

[1] Total number of apprentices registered as of December 31. Apprentices may be registered in more than one trade or branch of a trade within the same year, but are counted here only once.

Note 1: Apprentices choose whether or not to disclose their Aboriginal heritage when registering. The total number of Aboriginal apprentices reflected here indicates those who disclosed their Aboriginal heritage. There may be additional apprentices with Aboriginal heritage registered who did not disclose that information.

Chart 8

Total, Women and Aboriginal[1] Apprentices Registered by Year



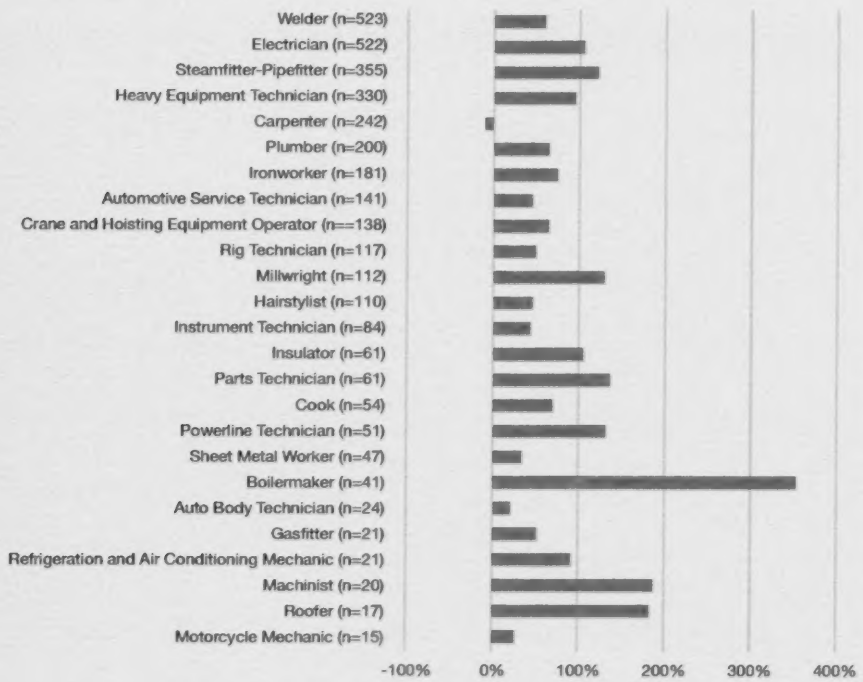
Source: *Alberta Innovation and Advanced Education*

[1] Apprentices choose whether or not to disclose their Aboriginal heritage when registering. The total number of Aboriginal apprentices reflected here indicates those who disclosed their Aboriginal heritage. There may be additional apprentices with Aboriginal heritage registered who did not disclose that information.

Note 1: In 2007 and 2008, the statistical methodology for the Aboriginal apprentice number changed, therefore, the numbers in those two years cannot be compared to those of previous or future years.

Chart 9

Per Cent Change of Aboriginal Apprentices Registered[1] by Trade Between 2009 and 2014



Source: *Alberta Innovation and Advanced Education*

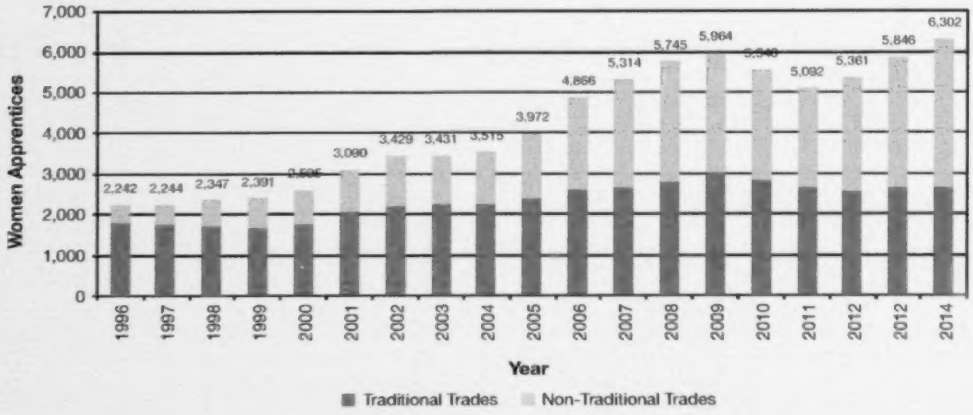
[1] Apprentices choose whether or not to disclose their Aboriginal heritage when registering. The total number of Aboriginal apprentices reflected here indicates those who disclosed their Aboriginal heritage. There may be additional apprentices with Aboriginal heritage registered who did not disclose that information.

Notes:
The 25 of 49 trades represented in the chart are those in which there were the highest number of Aboriginal apprentices registered as of December 31, 2014. The list of trades is rank ordered with the highest to lowest number of Aboriginal apprentices registered.

Due to small registration numbers in some trades, large percentage changes may occur.

Chart 10

Total Number of Women Apprentices Registered by Year[1]



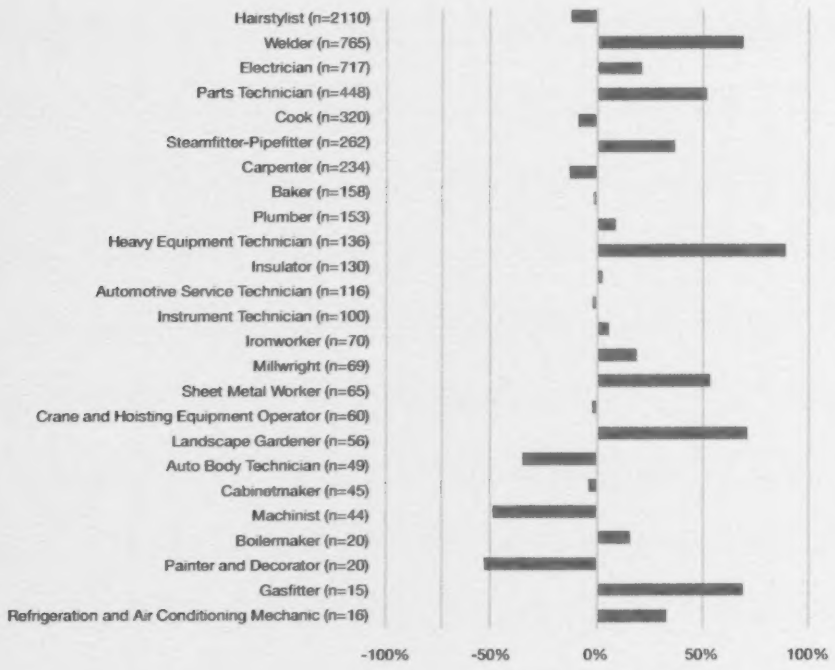
Source: *Alberta Innovation and Advanced Education*

[1] This graph represents statistics covering a series of calendar years (January to December).

Traditional Trades = These are trades in which women have traditionally made up a large proportion of the total apprentices registered. These trades are: baker, cook, hairstylist, and landscape gardener.
Non-Traditional Trades = All trades other than the four 'Traditional Trades'.

Chart 11

Per Cent Change of Women Apprentices Registered by Trade Between 2009 and 2014



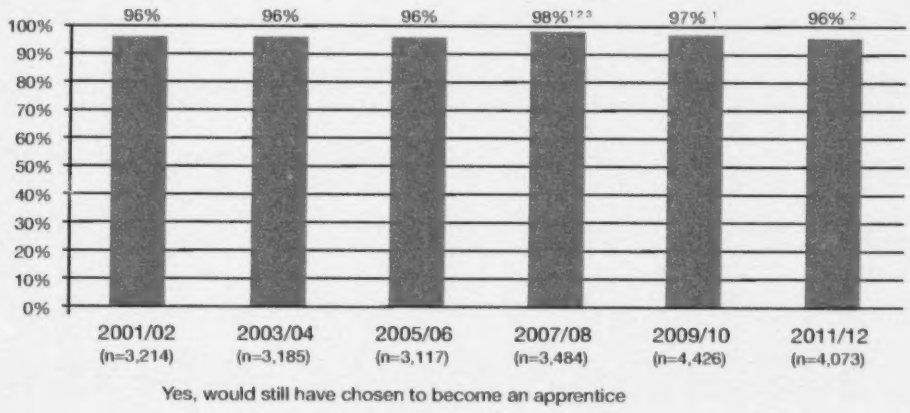
Source: *Alberta Innovation and Advanced Education*

Notes:
The 25 of 49 trades represented in the chart are those in which there were the highest number of women apprentices registered as of December 31, 2014. The list of trades is rank ordered with the highest to lowest number of women apprentices registered.

Due to small registration numbers in some trades, large percentage changes may occur.

Chart 12

Apprentice Graduate Satisfaction with Apprenticeship System



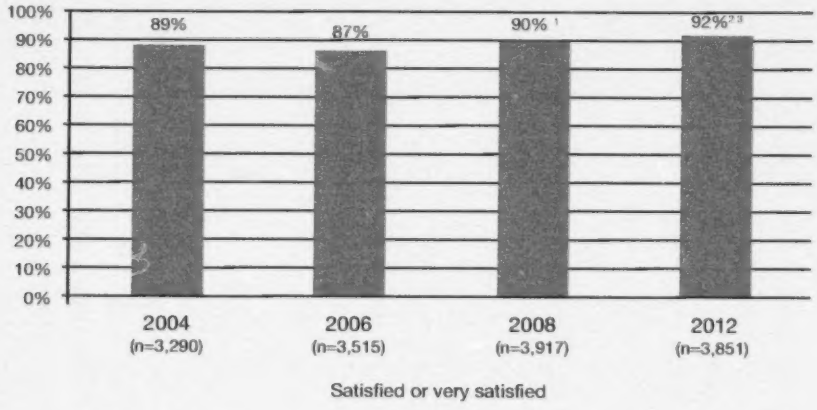
Source: *Alberta Innovation and Advanced Education, surveys of graduates*

Survey Question #F6: In retrospect, based on your experience with the Alberta apprenticeship program, would you still have chosen to become an apprentice?

[1] Indicates a significant change in response at a .05 level of confidence compared to the previous survey year.
[2] Indicates a significant change in response at a .05 level of confidence compared to two surveys previous.
[3] Indicates a significant change in response at a .05 level of confidence compared to three surveys previous.

Chart 13

Employer Satisfaction with Apprenticeship System



Source: *Alberta Innovation and Advanced Education, surveys of employer satisfaction with apprenticeship training and skilled tradespeople*

Survey Question #45: Overall, how satisfied are you with the apprenticeship and trade certification system in Alberta?

[1] Indicates a significant change in response at a .05 level of confidence
[2] Indicates a significant change in response at a .05 level of confidence
[3] Indicates a significant change in response at a .05 level of confidence